# Plastic pump materials and selection

## CPDR material ranges

PP: 0 to +100 C; high molecular PE: -50 to +80 C; PVDF: -20 to +130 C. These are material-specific reference ranges, not universal chemical-compatibility guarantees.

## Material identity

PVDF means polyvinylidene fluoride. Select the material for the medium, concentration and temperature, together with the complete sealing system.

## Duty information

Provide medium, concentration, solids content, temperature, required flow and head, suction conditions and installation arrangement. Confirm compatibility for the complete wetted and sealing system.

## CPDR and RCNKu

CPDR uses the updated standardized plastic-pump catalog and its 1450/2900 r/min selection maps. RCNKu expands the plastic-pump range; its larger series envelope is not a CPDR rating.

# Pump configurations and applications

## Plastic configurations

Additional plastic configurations include FNP standardized pumps; FNPM and RMKu(F) magnetic-drive types; RCKu(F) small-capacity types; CPRF free-flow types; RSKu self-priming types; and RVKu, RKuV(F), RKuVL submerged types. Request configuration-specific selection before ordering.

## Metallic configurations

Metallic configuration families include RN standardized, RMKN magnetic-drive, RAS/RCE process, RPROP/RSU axial-flow, RVN/GVSN(M)/RCEV submerged and RK sump configurations. Request a configuration-specific selection for the proposed duty.

## Application examples

Chemical processing, chlor-alkali brine/caustic services, pickling and acid regeneration, flue-gas scrubbing, process water and selected slurry services. Each requires medium-specific material and seal selection.

## Limits and separation

Ceramic FNC/FNF/FMA/FGP data are separate from plastic CPDR and RCNKu data. Do not apply ceramic seal temperature, pressure or vacuum figures to a plastic pump.